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1 BGP: BGP convergence in virtual private networks   ◼
◈ Dan Pei, Jacobus Van der Merwe
October 2006 **Proceedings of the 6th ACM SIGCOMM on Internet measurement IMC '06**
Publisher: ACM Press
Full text available: 🗎 pdf(519.65 KB)   Additional Information: full citation, abstract, references, index terms

> Multi-protocol label switching (MPLS) virtual private networks (VPNs) have had significant and growing commercial deployments. In this paper we present the first systematic study of BGP convergence in MPLS VPNs using data collected from a large tier-1 ISP. We combine several data sources to produce a methodology to accurately estimate routing convergence delays. We discovered an iBGP version of BGP path exploration, and show that the route invisibility problem occurs frequently and is one of the ...

> **Keywords**: BGP, MPLS VPN, routing convergence

2 Dependable and secure networks: Achieving sub-50 milliseconds recovery upon   ◼
◈ BGP peering link failures
Olivier Bonaventure, Clarence Filsfils, Pierre Francois
October 2005 **Proceedings of the 2005 ACM conference on Emerging network experiment and technology CoNEXT'05**
Publisher: ACM Press
Full text available: 🗎 pdf(469.44 KB)   Additional Information: full citation, abstract, references, index terms

> We first show by measurements that BGP peering links fail as frequently as intradomain links and usually for short periods of time. We propose a new fast-reroute technique where routers are *prepared* to react quickly to interdomain link failures. For each of its interdomain links, each router precomputes a *protection tunnel*, i.e. an IP tunnel to an alternate nexthop which can reach the same destinations as via the protected link. We propose a BGP-based auto-discovery technique that ...

> **Keywords**: IP tunnels, MPLS VPN, border gateway protocol (BGP), fast restoration

3 RouterFarm: towards a dynamic, manageable network edge   ◼
◈ Mukesh Agrawal, Susan R. Bailey, Albert Greenberg, Jorge Pastor, Panagiotis Sebos, Srinivasan Seshan, Kobus van der Merwe, Jennifer Yates

September 2006 **Proceedings of the 2006 SIGCOMM workshop on Internet network management INM '06**
Publisher: ACM Press
Full text available: ⬛ pdf(441.86 KB)   Additional Information: full citation, abstract, references

> Planned maintenance is a fact of life in IP networks. Examples of maintenance activities include updating router software as well as processor upgrades, memory upgrades, installation of additional line cards, and other hardware upgrades. While planned maintenance is clearly necessary, it is also costly. Software upgrades, for example, require rebooting the router. Due to the time required to reboot the router, and then synchronize state (such as BGP routing information) with network neighbors, t ...

> **Keywords**: availability, manageability, network edge, reliability

4 Dynamic connectivity management with an intelligent route service control point

J. Van der Merwe, A. Cepleanu, K. D'Souza, B. Freeman, A. Greenberg, D. Knight, R. McMillan, D. Moloney, J. Mulligan, H. Nguyen, M. Nguyen, A. Ramarajan, S. Saad, M. Satterlee, T. Spencer, D. Toll, S. Zelingher
September 2006 **Proceedings of the 2006 SIGCOMM workshop on Internet network management INM '06**
Publisher: ACM Press
Full text available: ⬛ pdf(439.89 KB)   Additional Information: full citation, abstract, references, index terms

> Increased use of demanding network applications, as well as the increase of unwanted network traffic in the form of DDoS attacks, are putting new pressures on service providers to meet the expectations of customers in terms of network availability and performance. Providers are expected to deal with potential problems in near real-time fashion. Further, many of these demanding application, such as VoIP and online gaming, are very sensitivity to even small periods of disruption. In this work we t ...

> **Keywords**: BGP, connectivity management, route control, routing

5 In VINI veritas: realistic and controlled network experimentation

Andy Bavier, Nick Feamster, Mark Huang, Larry Peterson, Jennifer Rexford
August 2006 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '06**, Volume 36 Issue 4
Publisher: ACM Press
Full text available: ⬛ pdf(321.10 KB)   Additional Information: full citation, abstract, references, index terms

> This paper describes *VINI*, a virtual network infrastructure that allows network researchers to evaluate their protocols and services in a realistic environment that also provides a high degree of control over network conditions. VINI allows researchers to deploy and evaluate their ideas with real routing software, traffic loads, and network events. To provide researchers flexibility in designing their experiments, VINI supports simultaneous experiments with arbitrary network topologies on ...

> **Keywords**: architecture, experimentation, internet, routing, virtualization

6 Traffic engineering: TIE breaking: tunable interdomain egress selection

Renata Teixeira, Timothy G. Griffin, Mauricio G. C. Resende, Jennifer Rexford
October 2005 **Proceedings of the 2005 ACM conference on Emerging network experiment and technology CoNEXT'05**
Publisher: ACM Press

Full text available: pdf(250.41 KB)   Additional Information: full citation, abstract, references, index terms

The separation of *intra*domain and *inter*domain routing has been a key feature of the Internet's routing architecture from the early days of the ARPAnet. However, the appropriate "division of labor" between the two protocols becomes unclear when an Autonomous System (AS) has interdomain routes to a destination prefix through multiple border routers---a situation that is extremely common today because neighboring domains often connect in several locations. We believe that the current ...

Keywords: BGP, egress-point selection

7 A recursive random search algorithm for large-scale network parameter configuration ∎

Tao Ye, Shivkumar Kalyanaraman
June 2003 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2003 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '03**, Volume 31 Issue 1
Publisher: ACM Press

Full text available: pdf(529.56 KB)   Additional Information: full citation, abstract, references, citings, index terms

Parameter configuration is a common procedure used in large-scale network protocols to support multiple operational goals. It can be formulated as a black-box optimization problem and solved with an efficient search algorithm. This paper proposes a new heuristic search algorithm, Recursive Random Search(RRS), for large-scale network parameter optimization. The RRS algorithm is based on the initial high-efficiency feature of random sampling and it attempts to maintain this high efficiency by cons ...

Keywords: black-box optimization, global optimization, network management, random sampling

8 Resource management with hoses: point-to-cloud services for virtual private networks ∎

N. G. Duffield, Pawan Goyal, Albert Greenberg, Partho Mishra, K. K. Ramakrishnan, Jacobus E. van der Merwe
October 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 5
Publisher: IEEE Press

Full text available: pdf(425.44 KB)   Additional Information: full citation, abstract, references, citings, index terms

As IP technologies providing both tremendous capacity and the ability to establish dynamic security associations between endpoints emerge, virtual private networks (VPNs) are going through dramatic growth. The number of endpoints per VPN is growing and the communication pattern between endpoints is becoming increasingly hard to predict. Consequently, users are demanding dependable, dynamic connectivity between endpoints, with the network expected to accommodate any traffic matrix, as long as the ...

Keywords: point-to-cloud, point-to-multipoint, quality of service, service level agreements

9 A Tree Based Router Search Engine Architecture with Single Port Memories ∎

Florin Baboescu, Dean M. Tullsen, Grigore Rosu, Sumeet Singh
May 2005 **ACM SIGARCH Computer Architecture News , Proceedings of the 32nd Annual International Symposium on Computer Architecture ISCA '05**,

Volume 33 Issue 2
Publisher: IEEE Computer Society, ACM Press
Full text available: pdf(293.29 KB)   Additional Information: full citation, abstract, index terms

> Pipelined forwarding engines are used in core routers to meet speed demands. Tree-based searches are pipelined across a number of stages to achieve high throughput, but this results in unevenly distributed memory. To address this imbalance, conventional approaches use either complex dynamic memory allocation schemes or over-provision each of the pipeline stages. This paper describes the microarchitecture of a novel network search processor which provides both high execution throughput and balanc ...

10 Broadband internet network management software platform and systems in KT
Jae-Hyoung Yoo
November 2006 **International Journal of Network Management**, Volume 16 Issue 6
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(999.62 KB)   Additional Information: full citation, abstract, references, index terms

> The high penetration rate of Internet access services in Korea has created an operational environment that is different from those of other countries, and thus the level of customer needs takes on different aspects. To meet the operational environment, customer needs and rapid time to market requirements, Korea Telecom (KT) developed a scalable and flexible Internet network management system software (NMS S/W) platform, on which many NMSs have been implemented. This paper introduces KT's Interne ...

11 Review: Imagestream's rebel router
Paul M. Holzmann
August 2002 **Linux Journal**, Volume 2002 Issue 100
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(8.81 KB)   Additional Information: full citation, index terms

12 On the cost of virtual private networks
Reuven Cohen, Gideon Kaempfer
December 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 6
Publisher: IEEE Press
Full text available: pdf(261.81 KB)   Additional Information: full citation, references, citings

13 Customer-managed end-to-end lightpath provisioning
Jing Wu, Michel Savoie, Scott Campbell, Hanxi Zhang, Gregor V. Bochmann, Bill St. Arnaud
September 2005 **International Journal of Network Management**, Volume 15 Issue 5
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(303.32 KB)   Additional Information: full citation, abstract, references, index terms

> Customer-owned and managed optical networks bring new cost-saving benefits. Two types of such networks are becoming widely used: metro dark fiber networks and long-haul leased wavelength networks. Customers may invoke a special QoS mechanism where end-to-end (E2E) lightpaths are dynamically established across multiple independently managed customer domains. The cost of bandwidth is substantially reduced since it largely becomes a capital cost rather than an ongoing service charge. Customers can ...

14 Resilient overlay networks
David Andersen, Hari Balakrishnan, Frans Kaashoek, Robert Morris
October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth**

ACM symposium on Operating systems principles SOSP '01, Volume 35 Issue 5

Publisher: ACM Press

Full text available: pdf(1.50 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

A Resilient Overlay Network (RON) is an architecture that allows distributed Internet applications to detect and recover from path outages and periods of degraded performance within several seconds, improving over today's wide-area routing protocols that take at least several minutes to recover. A RON is an application-layer overlay on top of the existing Internet routing substrate. The RON nodes monitor the functioning and quality of the Internet paths among themselves, and use this information ...

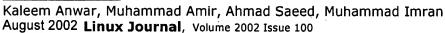**15** Full papers: Tree bitmap: hardware/software IP lookups with incremental updates

Will Eatherton, George Varghese, Zubin Dittia

April 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: pdf(189.39 KB)   Additional Information: full citation, abstract, references, citings

Even with the significant focus on IP address lookup in the published literature as well as focus on this market by commercial semiconductor vendors, there is still a challenge for router architects to find solutions that simultaneously meet 3 criteria: scaling in terms of lookup speeds as well as table sizes, the ability to perform high speed updates, and the ability to fit into the overall memory architecture of an Level 3 forwarding engine or packet processor with low systems cost overhead. I ...

16 The Linux router

Kaleem Anwar, Muhammad Amir, Ahmad Saeed, Muhammad Imran

August 2002 **Linux Journal**, Volume 2002 Issue 100

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(17.15 KB)   Additional Information: full citation, abstract, index terms

Sure a Linux router is cheaper than a Cisco router, but how does it stack up performance-wise?

17 Measurement: The impact of address allocation and routing on the structure and implementation of routing tables

Harsha Narayan, Ramesh Govindan, George Varghese

August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '03**
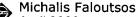
Publisher: ACM Press

Full text available: pdf(148.92 KB)   Additional Information: full citation, abstract, references, citings, index terms

The recent growth in the size of the routing table has led to an interest in quantitatively understanding both the causes (*eg* multihoming) as well as the effects (*eg* impact on router lookup implementations) of such routing table growth. In this paper, we describe a new model called **ARAM** that defines the structure of routing tables of any given size. Unlike simpler empirical models that work backwards from effects (*eg* current prefix length distributions), **ARAM** a ...

Keywords: IP lookups, modeling, routing tables

18 Editorial zone: Public real data repositories and measurement tools

Michalis Faloutsos

April 2006 **ACM SIGCOMM Computer Communication Review**, Volume 36 Issue 2

Publisher: ACM Press
Full text available: 📄 pdf(87.64 KB)   Additional Information: <u>full citation</u>, <u>index terms</u>

Keywords: data and measurements

19   <u>Predicate routing: enabling controlled networking</u>
Timothy Roscoe, Steve Hand, Rebecca Isaacs, Richard Mortier, Paul Jardetzky
January 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 1
Publisher: ACM Press
Full text available: 📄 <u>pdf(166.27 KB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

20   <u>Towards a global IP anycast service</u>
Hitesh Ballani, Paul Francis
August 2005 **ACM SIGCOMM Computer Communication Review , Proceedings of the
           2005 conference on Applications, technologies, architectures, and
           protocols for computer communications SIGCOMM '05**, Volume 35 Issue 4
Publisher: ACM Press

Full text available: 📄 <u>pdf(325.06 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

IP anycast, with its innate ability to find nearby resources in a robust and efficient
fashion, has long been considered an important means of service discovery. The growth of
P2P applications presents appealing new uses for IP anycast. Unfortunately, IP anycast
suffers from serious problems: it is very hard to deploy globally, it scales poorly by the
number of anycast groups, and it lacks important features like load-balancing. As a result,
its use is limited to a few critical infrastructure se ...

Keywords: anycast, architecture, overlay, proxy, routing

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☐ 1. **The benefits of monitoring routing protocols in live networks**
Dubois, N.; Capelle, M.; Chou, S.; Fondeviole, B.;
IP Operations and Management, 2004. Proceedings IEEE Workshop on
11-13 Oct. 2004 Page(s):9 - 15
Digital Object Identifier 10.1109/IPOM.2004.1547585

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☐ 2. **Detecting BGP Misconfiguration for BGP/MPLS VPNs**
Haiying Liang; Guowen Teng; Hongjun Wang; Yuan Gao;
Parallel and Distributed Computing, Applications and Technologies, 2005. PDC
International Conference on
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Digital Object Identifier 10.1109/PDCAT.2005.122

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☐ 3. **Design and implementation of Martini based Layer 2 VPN**
Suncheul Kim; Ho Yong Ryu; Jaehyung Park; Taell Kim;
Advanced Communication Technology, 2006. ICACT 2006. The 8th Internatior
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☐ 4. **BGP-based inter-domain traffic engineering in BGP/MPLS VPNs**
Haiying Liang; Guowen Teng; Hongjun Wang; Dadong Wang; Yuan Gao;
High Performance Switching and Routing, 2005. HPSR. 2005 Workshop on
12-14 May 2005 Page(s):477 - 480
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Bush, R.; Griffin, T.G.;
INFOCOM 2003. Twenty-Second Annual Joint Conference of the IEEE Compu
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Digital Object Identifier 10.1109/INFCOM.2003.1208982

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6. **Scaling IP Routing with the Core Router-Integrated Overlay**
Xinyang Zhang; Francis, P.; Jia Wang; Kaoru Yoshida;
Network Protocols, 2006. ICNP '06. Proceedings of the 2006 14th IEEE Interna
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7. **Hierarchical interworking of draft Kompella and draft Lasserre approache**
Hsu, C.-W.; Choi, F.-S.; Lai, W.-S.; Hou, T.-C.; Shyu, W.-L.;
High Performance Switching and Routing, 2006 Workshop on
7-9 June 2006 Page(s):6 pp.
Digital Object Identifier 10.1109/HPSR.2006.1709700

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Pelsser, C.; Uhlig, S.; Bonaventure, O.;
IP Operations and Management, 2004. Proceedings IEEE Workshop on
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Digital Object Identifier 10.1109/IPOM.2004.1547605

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9. **Management of BGP/MPLS VPN with resilient paths**
Park, J.T.;
Network Operations and Management Symposium, 2004. NOMS 2004. IEEE/I
Volume 1, 19-23 April 2004 Page(s):177 - 190 Vol.1

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MVPNs are configured on PE routers in an MPLS **VPN** backbone. In addition, PIM must be
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Shashank's **vpn** log
to distribute the routing. **BGP's update** message would be used to indicate that a PE is
attached to a particular **VPN**; **BGP's** withdraw ...
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[PPT] Multicast PE-PE Signaling
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RD:G:Flags:S/RP:U-PE:D-PE. **Update** from U-PE:. RD:G:Flags:S/RP:U-PE, Inner-Label;

Tunnel Identifier carried as Attribute. Transit for **VPN SSM - BGP ...**
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draft ietf l3vpn bgpvpn auto 08 txt
The remaining 7 bytes hold the **VPN**-ID value field as per [RFC-2685]. The **BGP UPDATE**
message will carry information for a single **VPN. ...**
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S10	1222	713/182.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/07 17:31

S11	1	713/182.ccls. and ((border adj gateway adj protocol) bgp)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:38
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S16	59	370/392.ccls. and ((border adj gateway adj protocol) bgp) and ((virtual adj private adj network) vpn)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:34
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S19	9	370/465.ccls. and ((border adj gateway adj protocol) bgp) and ((virtual adj private adj network) vpn)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:41
S20	47	709/238.ccls. and ((border adj gateway adj protocol) bgp) and ((virtual adj private adj network) vpn)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:41
S21	0	713/182.ccls. and ((border adj gateway adj protocol) bgp).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:38
S22	1	370/257.ccls. and ((border adj gateway adj protocol) bgp (vpn) (virtual adj private adj network)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:41
S23	87	370/389.ccls. and ((border adj gateway adj protocol) bgp (vpn) (virtual adj private adj network)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:40
S24	1409	370/389.ccls. and ((border adj gateway adj protocol) bgp).clm. and (vpn) (virtual adj private adj network).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:40

S25	4	370/389.ccls. and ((border adj gateway adj protocol) bgp).clm. and (vpn (virtual adj private adj network)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:40
S26	16	370/254.ccls. and ((border adj gateway adj protocol) bgp) and ((virtual adj private adj network) vpn).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:40
S27	14	370/351.ccls. and ((border adj gateway adj protocol) bgp) and ((virtual adj private adj network) vpn).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:41
S28	4	370/465.ccls. and ((border adj gateway adj protocol) bgp) and ((virtual adj private adj network) vpn).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:41
S29	19	709/238.ccls. and ((border adj gateway adj protocol) bgp) and ((virtual adj private adj network) vpn).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:41
S30	129	(update adj message) with ((border adj gateway adj protocol) bgp)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:42
S31	17	(update adj message) with ((border adj gateway adj protocol) bgp) same ((virtual adj private adj network) vpn)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:43

S32	39	OULD-BRAHIM.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:43
S33	2	OULD-BRAHIM.in. and (update adj message)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:44
S34	93	WRIGHT.in. with (gregory)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:44
S35	3	WRIGHT.in. with (gregory) and ((border adj gateway adj protocol) bgp)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:44
S36	5	GLEESON.in. with (bryan)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:45
S37	0	GLEESON.in. with (bryan) and bgp	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:45
S38	9127	nortel adj networks.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 17:45

S39	11	nortel adj networks.as. and ((border adj gateway adj protocol) bgp).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 18:24
S40	182	370/501.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 18:24
S41	0	370/501.ccls. and (bgp (border adj gateway adj protocol))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 18:26
S42	389	370/409.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 18:26
S43	13	370/409.ccls. and (bgp (border adj gateway adj protocol))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 18:26
S44	0	370/501.ccls. and (bgp (border adj gateway adj protocol)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 18:26
S45	2	370/409.ccls. and (border adj gateway adj protocol).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 18:26

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S46	4	370/409.ccls. and ((border adj gateway adj protocol) bgp).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 18:36
S47	3027	709/238.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 18:36
S48	409	370/255.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 18:41
S49	12	370/255.ccls. and (bgp (border adj gateway adj protocol))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 18:41
S50	4	370/255.ccls. and (bgp (border adj gateway adj protocol)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/07 18:41